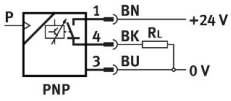
# Pressure sensor
# SDE5-D10Z-O-Q6-P-M8

Part number: 567462




## Data sheet

| Feature | Value |
|---|---|
| Approval | RCM<br>c UL us - Recognised (Oil) |
| CE mark (see declaration of conformity) | To EU EMC Directive<br>In accordance with EU RoHS Directive |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC<br>To UK RoHS instructions |
| Note on materials | RoHS compliant |
| Measured variable | Differential pressure |
| Measurement method | Piezoresistive pressure sensor |
| Start value for pressure measuring range | 0 MPa<br>0 bar<br>0 psi |
| End value for pressure measuring range | 1 MPa<br>10 bar<br>145 psi |
| Overload pressure | 1.5 MPa<br>15 bar<br>217.5 psi |
| Operating medium | Compressed air to ISO 8573-1:2010 [7:4:4] |
| Note on operating and pilot medium | Lubricated operation possible |
| Media temperature | 0 °C...50 °C |
| Ambient temperature | 0 °C...50 °C |
| Accuracy in ± % FS | 0.5 %FS |
| Repetition accuracy in ± %FS | 0.3 %FS |
| Temperature coefficient in ± %FS/K | 0.05 %FS/K |
| Switching output | PNP |
| Switching function | Threshold value with fixed hysteresis |
| Switching element function | N/O contact |
| Hysteresis in ± %FS | 2 %FS |
| Switch-on time | 2 ms |
| Switch-off time | 2 ms |
| Max. output current | 100 mA |
| Voltage drop | 1.8 V |
| Short circuit current rating | Yes |

| Feature | Value |
|---|---|
| Overload protection | Yes |
| Operational voltage range DC | 15 V...30 V |
| Reverse polarity protection | For all electrical connections |
| Electrical connection 1, connection type | Plug |
| Electrical connection 1, connector system | M8x1, A-coded, to EN 61076-2-104 |
| Electrical connection 1, number of connections/cores | 3 |
| Electrical connection 1, type of mounting | Snap-locking<br>Screw-type lock<br>Not rotatable |
| Electrical connection 1, compatible type of mounting | Compatible with latching lock<br>Compatible with rotatable screw-type lock |
| Material connector housing | Brass, nickel-plated |
| Max. cable length | 30 M |
| Type of mounting | With accessories |
| Mounting position | Any |
| Pneumatic connection | QS-6 |
| Product weight | 19 g |
| Material housing | Reinforced PA<br>Reinforced POM |
| Material sealing ring | Fluoro rubber<br>NBR |
| Switching status indication | Yellow LED |
| Setting options | Teach-in |
| Setting range threshold value | 0 %...100 % |
| Degree of protection | IP40 |
| Corrosion resistance class CRC | 2 - Moderate corrosion stress |
| LABS (PWIS) conformity | VDMA24364-B1/B2-L |
| Cleanroom suitability, measured according to ISO 14644-14 | Class 4 according to ISO 14644-1 |